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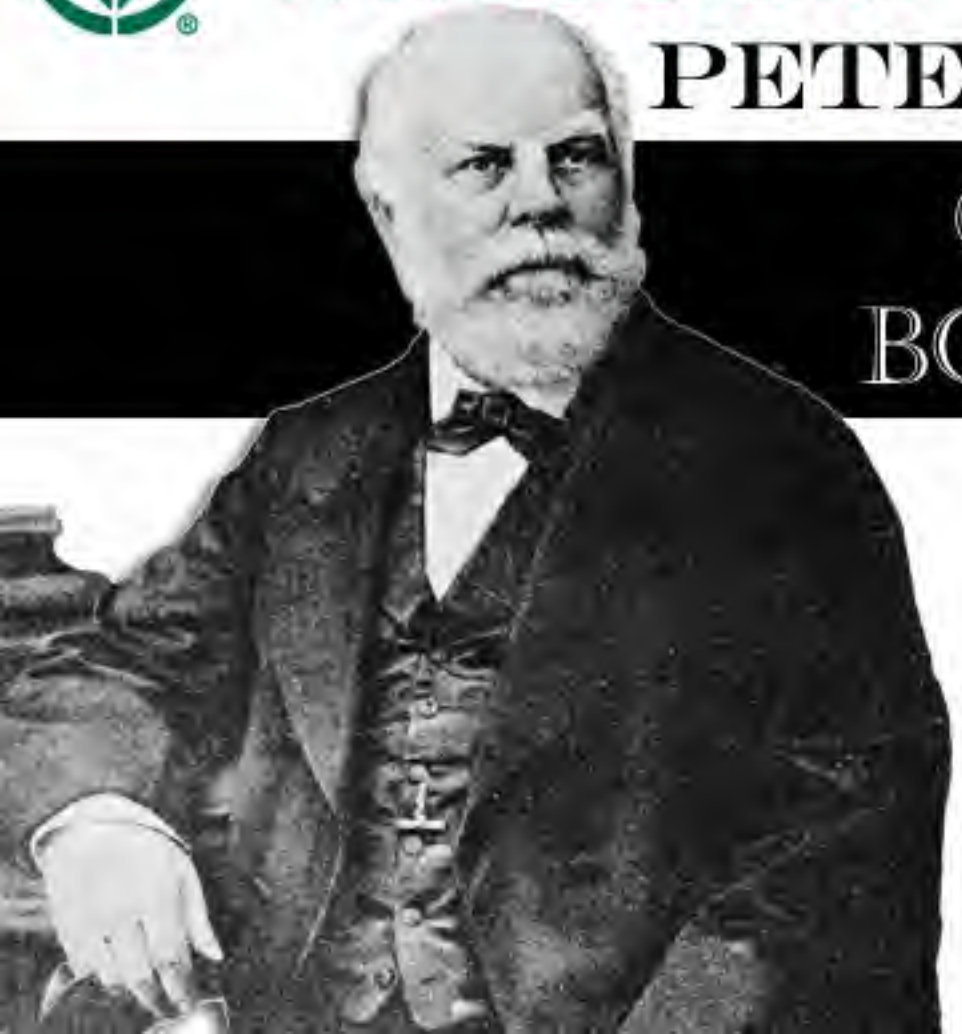

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Am Dec 30 1878

As to Junipers, I am ask at last about them.

Can you send me the names of the following Junipers.

Guadeloupe Isl Palmer 91. S. California

New Mexico — Fendler 834, 835 Virginia
1835 a.

" " Wright 671. 1850. occ. conjungens Rockyphlora

328 Note by Sutton Bot. = J. occidentalis
California. Bridges 290, 291 var. australis

Lobb 438 Calif.

Rocky Mts Geyer 506.

No numbers in Virginian Herbarium

With kind remembrance to Mrs

Engelmann & Yr Son

Asa Gray

2 I shall be so happy to receive also
for the named Fendler Junipers.

Fendler leaves of Thuiopsis grandis
& that two subspecies of Abies — both very
dark. We have no pale barked Abies in
California (as in Colorado)

13107

MISSOURI BOTANICAL GARDEN
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1735-96

Juniperus

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March 13 '76

I Bacca major sicca fibrosa, mpo- caesia

semina singula (varius bina)

I. Mexicana folii serrulata

I. Osteosperma folii fimbriato - ~~serrulata~~ obtusa

I. Utahensis folii serrulata

semina plura (2-5)

I. placida (pachyphlaea) folii obsolete serrulata

II Bacca minor pulposa, atro-coerulea

~~semina singula (seu bina)~~

~~*I. tetragona*~~

folia serrulata (brevia obtusa)

I tetragona folii bina, semi- singula

I. occidentalis folii terna et bina

semina singula - terna

folia integerrima (acutiuscula vel obtusa)

I. Sabinae prostrata fol bina sem

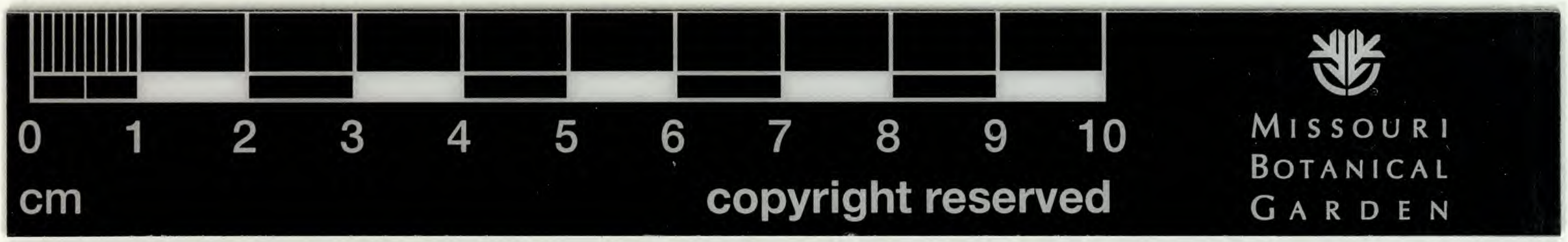
singula - quina

folii integerrima (acuta rarius obtusa)

I. Virginiana

I. barbadensis ? glandula biseni

fol oblonga linearia obtusa



Mr. D. Engelmann 13109

Sir:

The annual election for three trustees of this Association, to serve for one year, will take place at the "Anzeiger" Office, Monday, January 26th, 1874. Polls open from 1 to 4 o'clock, P. M.

CARL DÆNZER,
CHAS. SPECK,
FRANCIS CORNET,
} Trustees.

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Stanleyeae

Cotyledons seen

4–6 S. osteosperma Nev. Dorn, State Survey 792

5 ——— Utahensis, Camp Apache, D'Orand

2 S. Mexicana, Chrenberg, Mexico del Monte

2 S. pinnatifida, Parish, Ariz. Parry 1867

2 S. occidentalis, tenuior, N. Brunsfels, Lindheim. 1848

2 ——— integra, Colorado, Greene 1873

2 ——— ——— Oregonensis Wirlj. 229

2 ——— pleiosperma Mono Lake, Boland

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Heights of Conifers

fide DC Prod. p. 437 ff

S. Araucana	30'
macrocarpa	65'
Oxycedrus	9'
Cedrus	excelsa 2-3' diam
brevifolia	
communis	ad 45'
Nigrita	ad 20'
conferta	
Tax. folia	arbor
recurva	ad 30'
pseudo Sabina	frutex
Davurica	frutex decumb.
Sabina	frut vel arbor
excelsa	ad 15'
fastigiata	9-12'
prorera	arbor
phoenicea	ad 12-15'
Thuifera	ad 80'
Chinensis	ad 60-75'
sphaerica	arbor
Virginiana	ad 45' 90' Grey
occidentalis	30-45'
pachyphloea	arbor
Bermudiana	arbor
Mexicana	20-30 & 70-90'
tetragona	3-6 feet
flaccida	20-30'

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Of the Sclerae of the old world.

I. chrysanthus (Hort) is much like V. pectinata
I. pectinata (Coll Hort Holland) has the strongest
dentation, rounded like packyphlum,
I. phocaeica from Italy and Pyrenees
from Spain, rather less, similar to flavescens
exaltata (coll Kalosky) still less, only little
more than subsimplex (Switzerland Coll Chrysostyx
written on back

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C. V. RILEY, *Chief*,
St. Louis, Mo.
A. S. PACKARD, JR., *Sec'y*,
Salem, Mass.
CYRUS THOMAS,
Disbursing Agent,
Carbondale, Ill.

Department of the Interior,

OFFICE OF THE

U. S. Entomological Commission,

HEADQUARTERS,
Cor. Sixth and Locust,
St. Lous, Mo.

EASTERN OFFICE,
Hayden's Survey,
Washington, D. C.

Nov 16, 1877.

Dear Doctor,

I send the enclosed description in the form

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stomata entirely on upper side of pinnæ
(white) none on lower (sparingly by
feather

white side of leaves of P. Menziesii above with
stomata.

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LEITCH,

PHARMACEUTIST,

urth & Olive Sts. St Louis, Mo.

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Juniperus notes from Parlatore DC Prod XVI. 2. p. 475

J. virginiana: ♂ dioici, monoici = gelbulus secundo anno maturus. — rotyl. 2 (interdum 3)
foli bini articulati vel adulti

J. Sabina bacteis ♂ integris gelbuli atro-coerulei glaucedine albo tecti maturi 2-1 rari 3-4

J. Virginiana amenta ♂ = ramulo brevissimo erecto, bract integr; gelb sqq 4-6 foriis mat 1-2
Type Berlandier 2079

J. occidentalis fol ramulorum [terni?] ovati acutis amenta ♂ subquadrangulis, bracteis orbiculatis integris; gelbulis ovali-subglobosis majusculis, squamis glaucedine albo tectis, squamis 6-9 triforiis; maturis 2-1 majusculis = J. lethyoxa var ostreosperma
Sqq: chamaecyparis Lawsoniana Dne

J. pachyphloea fol acutiuscula mucronata terna; gelbuli = retrorsis = sqq 9 triforiis

J. Bermudiana bract ♂ acutiuscula integris.

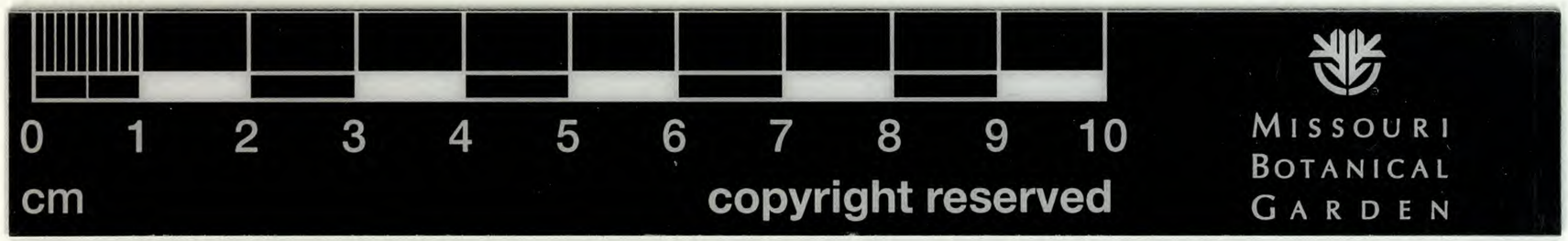
J. Mexicana cortice cinereo scrobiculato; fol ramulorum 4-foriis acutis mucronatis, glandula obscura notatis, marginibus obsoletiuscula; bracteis ♂ subdenticulatis = gelbulis majoribus ovoideoglobosis squamis 6 ovatis, maturis 3-4 Wiesbaden 229 Jimapa Arsène Berlandier 1169
gelb 12-14 millim longis

J. tetragona fol (saepe terna), acutiuscula marginibus acutis scabriusculis = amenta ♂ tetragona, bract subsemiorbiculatis, gelb fusco-violacea obsolete 5-9 mm long squamis 6-4 foriis, maturis 3-4
--- Berlandier 1169 [see J. Mexicana] pedalis 3-6, maturis obtusa exacta 11-12 mm long = rubro fusca = squamis 6-8

J. flaccida fol pungentibus gelbulis solitariis maturis 5-6

J. cerrosiana

J. plerodermia



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April 22d 1876

Juniperus Sabinae Americanae

Caesius
Ehrenb
I Fructus major rufo virescens siccior fibrosus Saccharinus

1. Juniperus Mexicana Schlecht Linnaea 5. 77 DC. 491 crassior foliis acutis plerumque 4-faria; glandula dorsali hemisphaerica magna sicca

a. Typica monosperma Schlecht in Hb. Berlin Llanos de Perote 1828

Hartweg 433 = Hb Kew & Berlin Real del Monte 1838

β. pleiosperma C. Ehrenberg Mineral del Monte ... = Hb Berlin [obtd 2]
... & Cuesta blanca No 256 & Real del Monte No 7 = Hb Berl
636 d Gregg Real del Monte 1849 Hb. E d'Orbigny No 230 Cotyledonibus Hb. E.
1169 Berlandier = Hb. Berlin Ulhde 68 = Hb Berlin
2001 Seemann, Sierra Madre, = Hb Kew

2. J. parkyphloea, Torrey Whipple Rep. Pac. R. IV. 60 & 143 Feminon 1857 DC. 490 crassior foliis acutis 4-faria, glaud. dorsali parva resinifera
plantis saepius glaucis
Yumi, & Yompei creek Dr Woodhouse 1851. Hb. Torr & Hb Acad Phil
Emory, Copper mines 1846 = Hb Torr. Bigelow ibid. = Hb Torrey
& Parry, Mount Carmel on Rio Grande = Hb. Torrey
" Arizona 1852 ib, (Prescott) 1861 = Hb Torr & Engl.
Fort Whipple Arizona, Cones & Palmer 224 1864. Hb Engl.
Wright 1890 N Mexico. = Hb Engl & Gray.

3. J. flaccida Schlecht Linn. 12. 495 DC. 492 tenuior foliis acuminatis squamosa 4-faria pleiosperma
Ehrenberg, Regla, = Hb Berlin & Jimapan 1112 ib.
Hartweg 435 Regla 1838 = Hb Kew. 783 Jimapan. 377 Liebmann = Hb Berlin
Coulter = Hb. Gray 1419 & Gregg, Saltillo 432 1848
Galeotti No 10 = Hb Kew.
Rio de las Vueltas Cajaca Liebmann = Hb Kew.

4 J. osteosperma Engl. Calif. Carr Rev. Hort. 3. 352 (1857) Coniferae von Hochstetter DC. 490 crassior foliis obtuse acute 4-faria plerumque 6-faria (Styled 4–6)

a. robustior typica valet & fruit generally in [illegible]

California Santa Gabriel 110. 111. 112. 126. State survey
—— Monte Diablo 840. State survey
—— Ceros ins Cal, Kellogg = Hb Torrey.
—— Nov Idria 792 State survey. Cotyledons dorsal
—— Santa Lucia Mts. Dr W.W Hays 1874

Typus & Yumi Dr Bigelow 1853. = Hb. Torr
1. Hb Colorado Dr Woodhouse 1851 = Hb Torr & Hb Philadelph
2. Exp. Fremont 1849 = Hb Torr. no number or locality
~~Lobb~~ = Hb Kew 438 Bridges 291 = Hb Kew &c.
~~b. tenuior, ovoid fruit generally = 2~~

Bear Mountain, Torr. 1865 = Hb Torr
Bear Valley Boland & Keller 1872 = Hb Torr.
San Felipe, Dr Parry 1850 = Hb Torrey
Foot Hills of Sierra Nevada Torr. 1865 = Hb Torr

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Calyptridium var Utahense

4 P. Osteosperma P. Tenuior scales of fruit generally = 2^{s}

Utah Camp Floyd H Engelm 1859 = Hb Engl

— Provo Parry 1874 Hb E.

— St George " "

Arizona Camp Apache & J D. Grand 1874 Hb E

" " " G. H Gilbert 1873 Hb E

" Fort Whipple Cones & Palmer 1865 — Hb E

Nevada, Fremont 1845 Salmon trout River Hb Torrey

" Virginia Mountains S. Watson = Hb Torrey

II fruiting minor atro ovulum pulposum reticulatum

5 ~~P. tetragona~~ Schlecht. P. occidentalis Hook Fl. bor am 2.166. Dt-489

a. genuina crassior, scapis 6-pari (virgato & acuti Calif) pleiosperma Chamisso & Columbia (Lewis) Douglas (n typ)

= Hb Kew

P. excelsa Durand 2. 647 not Dietr.

P. Andina Nutt Sylv 3. 95. t.

Rocky Mountains Nuttall = Hb Gray (n typ)

Mono Lake, Bolander Hb. E. 328 N. Bridges = Hb. Torr. (Feed exsert)

Klamath region. Fremont 387. 388. 389. = Hb Torr. L. & Agric Dep.

— Jeffries 743 = Hb Bridges

— wilkes Expl. Exp. = Hb. Agric. Dep.

Carson Nevada, N 855. Calif. State Survey.

High Sierras Tamalpais 911 State Survey. } to the next form

b. intermedia scapis 1 sperma, foliis 4–6 pariis. (Rocky Mts. to Oregon & Calif

Colorado, Greene 873 Hb. E

New Mexico Fendler 1847 N. 834 Hb. Torr. Gray & Wislizen 1846 N. 536 Hb E

Cosiguriachi Wislizen 1846. N. 229 = Hb E

Calfornia [illegible] Cleveland, Bolander = Hb E. Calif. State Survey N 1855

Bryan Mts. Parry = Hb. Torr. Wright. 1851 ~~& 671 672 = Hb Gray~~

~~Pecos Bigelow = Hb. Torr~~ Arizona Coues & Palmer = Hb E

Juan Bigelow = Hb Torr, S. Ignacio Exp. = Hb Torr

Copper mines Emory = Hb Torrey

g. (tetragona) Tenuior plerosperma 4-pari 1 (2) sperma.

Texas, Lindheimer 1848-1850 = Hb E Berlandier 671. 2081 = Hb. E. & Gray. Pecos Bigelow = Hb Torrey

N Boothy Wright 1851 Hall, Austin, 615 Hb. E. al. Wright 671. 672 = Hb Gray

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6. *I. tetragona* Schlecht Lin 12. 495 = DC. 491

a. *genuina pleiosperma* ℓ.

Real del Monte Ehrenberg 1835 = Hb Berl. N 6

—— Hartweg. 436 = Hb Kew.

Uhde 63 = Hb Berl. — Linden orizb 6 / Galeotti oaxaca 12 = Hb. Kew

b. *genuina meiosperma*

Schlecht Grezz. 398 = Hb. ℓ Grezz. 106 = Hb ℓ
oaxaca

c. *leptoclada* (1. spec.)

Jimapa. 381 Schiede = Hb Berl.

Cordillera Sartorius = Hb Turn.

d? *integrisepala* 2–3 spec.

Mexico, Uhde, 67 Barranca del Rey

7. *I. Cubensis* Lyc

Cuba Wright 3187.

8 *I. Sabina* L Sp. pl. 1472 DC. 483

2. New Brunswick, J. Fowler. = Hb Gray
3 Bergen Swamp. north N York, J. A. Payne = Hb Gray
4 Manitoba is Lake, Lyall 3-5 seeds Chicago Fendler

8 Cascade Mountains Lyall = Hb Gray 1 seed

5 Yellowst Hayden = Hb. ℓ 2-3 seeds

6 Head of Yellowst Parry 1873 = Hb ℓ N° 264

7 Fremont 165 (1845) = Hb Torr. Agric. Engl. 1-2 seeds (typ Alkan. ?

1 Hudsons Bay Country, Richardson = Hb Kew

9. *I. Wrightiana* Torr Sp. pl. 1471 DC. 488

~~North Arizona Dr. Gilbert Expl. Pacific Grant 1873~~

~~New Mexico Fendler 1850 Hb~~

Colorado Ed. Greene 1873 North & north western

3 Wright Texas. Wilkes U.S. Expl. = Hb. Agric Dep.

5 Vancouver Dr Lyall. 1858–9 = Hb Gray

4 Fraser River Mr Jones 1865 = Hb Edgely.

1 ~~North Hb Michx~~ Hudsons Bay Territory, Burke = Hb Kew

2 Oregon & Washingt Terr. Mr Geyer = Hb Kew

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Eastern & Middle

New York G. E

Niagara G. E

Michigan H. Gilman

Minnesota Dr Parry 1–2 seed

Kentucky H. Short

Missouri G. E Arkansas G. E.

Florida Mich. in Herb Torr

~~Junip. Bermudiana Lin~~

Bermuda in Herb Kew

Western & Southern

Cedar island Hayden

Fork of the Platte H Engl. 2 seeds

Fort Arbuckle Dr Palmer in Herb Torr

Texas Drummond 347 in Herb Gray

Rocky Mountains, Colorado to Arizona

Pole Creek H Engler

Colorado E Hall 2 seeds, also 1!

C L Greene

Colorado Trop. Gunnison in Herb Gray

Upper Mound, Wis Cy. 583

Santa Fe Fendler 835 2 seeds

Camp Apache & J. B. Grand 1873 1–2 seeds

Northern Arizona, Sierra Blanca G. K Gilbert 1873

10 Junip. Bermudiana Lin Sp. pl. 1471 DC. 490

Bermuda in Herb Kew.

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Juniperus Sect Sabina

					Cons
— 1			Fowler 836	Americanae	
— 1			Wiggins 536	Flaxi Woodhouse x Bigelow	3
Sem. — 1	J. Occidentalis	Hook	~~Kan York Expt~~	Colorado Greene	
— 1				Sierra Nevada 1917 1855	3
— 2				~~Texas~~ Bigelow	2-3
— 2				Fremont 387. 388 (2)	3
— ~~2~~				~~Texas Bigelow~~	2
— 2				~~Flaxi Bigelow~~ Klamath 743	2-3
— 2-3				Mono pass Calif	3

1	J. Virginiana Li		Conjugenichi Wisl 229	
1			Gregg Sabillo 106	
~~1 — 2~~			~~Wiley N Mex 536~~	
1 — 2	1		~~Fremont 165~~ Pedun recurv	
1			Bakeri 671 2081	
1			Fendler N Mex ~~536~~ 834	
1			Lutheran Texas	
1			Hall Texas	
1 — 2			Gregg Sabillo 398	
1 — 2			Fremont 165 pedun recurv	
2 — 1		Typical	Kinnawick NE	
2 — 1			Texas Wright	
~~2~~ 2			Colorado Hall	
2			Weekawk NY. NE	
2 — (3-4)			Platte H Eaton	

1	Osteosperma	Type	~~Colorado Aspen Wash~~	(2)3
1			Jaralito Parry	3
1			Monte Sibley 840	(2)3
1			Zuni Bigelow	3
(1) ?			San Gabriel 126. 127. 110	3
1			Torrey Portales 111 112	2-3
1		(Cerosinos)	Kellogg	
1			~~Latah Colorado Wash~~	
1			Torrey 505 Guadalupe	
1 (2)			Camp Hood, H Eaton	2-3
1 (2)			New Loria 791 792	(2)-3
2			Conjugenichi Wisl 230	3
?			Watson Nevada 1122 ~~1146~~ Torr	

2-3	pachyphloea		Coppermines Bigelow	3
3	pachyphloea		Parry Arizona 1867	2-3
? (3-4) 2		J. Virginiana Gray	Wright 1890	2-3
3 — 4		Type	Yampai Creek Woodson	(2)3
3 — 4			Sabillo 423 Gregg 636	?
3 — 4			Real del Monte 636 Gregg	2-3
4			Rio Grande Parry 1852	
?			Dewey 1846	

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J. W. Edgell Pr

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Juniperi no 2 in Febr 1874 for Agricult. Department, and returned in March under the following provisional names

J. osteosperma var Utahensis Fremont, Salmon trout River 1845-7

J. occidentalis var pleiosperma Fremont 389. 1846

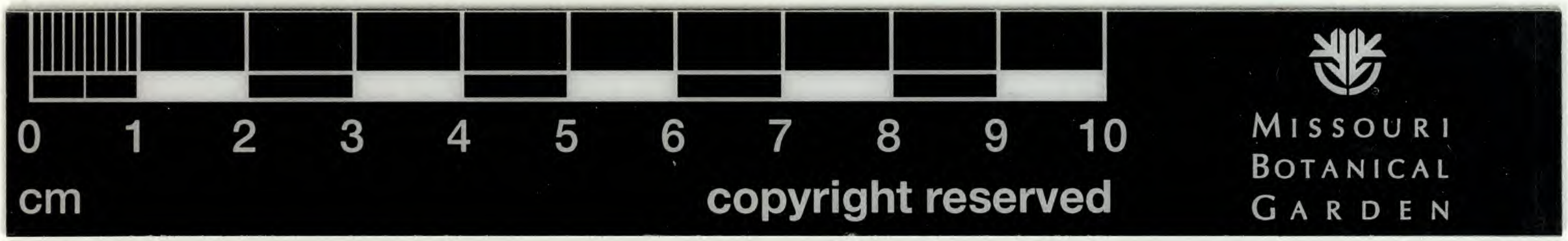
J. Virginiana Wilkes Expl. Washingt. Terr. sub nom occidentalis

J. occidentalis var pleiosperma North Californi Wilkes Ex

" " " " Fremont 385

" " " " 387

J. Sabina var ~~prostrata~~ cymbeas Pursh Fremont (Upper Missouri?)



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Dear Dr.

The baby is broken out quite thick with an eruption. I do not know what it is, & would like you to come over and see it. We took a long ride yesterday, but I have been

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